



Generell informasjon

Brønnbane navn	2/7-19 R
Type	EXPLORATION
Formål	WILDCAT
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Funn	2/7-19 (Ebba)
Brønn navn	2/7-19
Seismisk lokalisering	PG 030615- SP. 12
Utvinningstillatelse	018
Boreoperatør	Phillips Petroleum Company Norway
Boretillatelse	262-L2
Boreinnretning	ROSS ISLE
Boredager	59
Borestart	15.01.1990
Boreslutt	14.03.1990
Plugget og forlatt dato	14.03.1990
Frigitt dato	14.03.1992
Publiseringsdato	17.06.2009
Opprinnelig formål	WILDCAT
Gjenåpnet	YES
Årsak til gjenåpning	TESTING
Innhold	OIL
Funnbrønnbane	NO
1. nivå med hydrokarboner, alder	LATE JURASSIC
1. nivå med hydrokarboner, formasjon.	ULA FM
Avstand, boredekk - midlere havflate [m]	22.0
Vanndybde ved midlere havflate [m]	73.0
Totalt målt dybde (MD) [m RKB]	4873.0
Totalt vertikalt dybde (TVD) [m RKB]	4873.0
Maks inklinasjon [°]	3.4
Temperatur ved bunn av brønnbanen [°C]	179
Eldste penetrerte alder	LATE PERMIAN
Eldste penetrerte formasjon	ZECHSTEIN GP
Geodetisk datum	ED50



NS grader	56° 20' 19.1" N
ØV grader	3° 6' 12.2" E
NS UTM [m]	6243913.56
ØV UTM [m]	506391.96
UTM sone	31
NPDID for brønnbanen	1512

Brønnhistorie

General

Well 2/7-19 R is a re-entry of well 2/7-19, which was drilled in 1980/81 by the semi-submersible Borgsten Dolphin. The well encountered gas in Early Cretaceous sandstones, but was suspended in February 1981 due to a BOP system that was not rated to allow a DST test to be performed. RFT tests measurements indicated a possible wellhead pressure of 11200 psi, while the BOP was rated to 10000 psi. A 7" liner was run to a depth of 4839 m and cemented, but not perforated. The purpose of the re-entry was to test 43 m of gross pay distributed in four sand lenses from 4712 to 4839 m. The DST test was designed such that it would be possible to keep the well for future production if flow rates were commercial.

Operations and results

Wildcat well 2/7-19 was re-entered (2/7-19 R) with the semi-submersible installation Ross Isle on 15 January 1990.

During drilling of the 2/7-19 well, only gas was encountered. The test in the re-entry showed that the reservoir rocks were tight, but a positive feature was that oil was encountered during testing. The test confirmed the earlier anticipated formation pressure of 860 to 895 bar.

The well was permanently abandoned on 14 March 1990 as an oil appraisal.

Testing

One DST test was performed from four sand lenses in the intervals 4712 - 4727 m, 4762 - 4783 m (Ula Formation), 4800 - 4818 m Ula/Bryne Formations), and 4830 - 4838 m (Bryne Formation). The total net pay in the perforated sections was 23 m. After acid treatment the well produced hydrocarbons at a rate of 34.8 Sm³ oil and 15631 Sm³ gas /d through an 11.91 mm choke. The CO₂ content of the separator gas was 4.4%. The GOR was 449 Sm³/Sm³ but this figure is uncertain due to slugging of the well and poor rate measurements. The matrix/acid job performed was not effective. The stable shut-in temperature at 4628 m (gauge depth) was 169 deg C, while maximum recorded flowing temperature was 172 deg C. It was not established which of the four perforated sections that contributed to the flow.

Palynologiske preparater i Sökkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4800.0	[m]	DC	IKU
4839.0	[m]	DC	IKU



4852.0	[m]	DC	IKU
4867.0	[m]	DC	IKU

Oljeprøver i Sokkeldirektoratet

Test type	Flaske nummer	Topp dyp MD [m]	Bunn dyp MD [m]	Væske type	Test tidspunkt	Prøver tilgjengelig
DST	DST1	4711.60	4838.40		16.02.1990 - 00:00	YES

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
95	NORDLAND GP
1527	HORDALAND GP
2984	ROGALAND GP
2984	BALDER FM
3001	SELE FM
3024	LISTA FM
3066	VÅLE FM
3127	SHETLAND GP
3127	EKOFISK FM
3185	TOR FM
3441	HOD FM
4052	BLODØKS FM
4078	HIDRA FM
4209	CROMER KNOLL GP
4209	RØDBY FM
4325	SOLA FM
4465	ÅSGARD FM
4583	TYNE GP
4583	MANDAL FM
4587	FARSUND FM
4690	VESTLAND GP
4690	ULA FM
4807	BRYNE FM
4837	ZECHSTEIN GP



Geokjemisk informasjon

Dokument navn	Dokument format	Dokument størrelse [KB]
1512_1	pdf	0.21
1512_2	pdf	1.01

Borestrengtester (DST)

Test nummer	Fra dybde MD [m]	Til dybde MD [m]	Reduksjonsven til størrelse [mm]
1.0	4711	4838	12.0

Test nummer	Endelig avstengningstrykk [MPa]	Endelig strømningstrykk [MPa]	Bunnhullstrykk [MPa]	Borehullstemperatur [°C]
1.0		2.700		169

Test nummer	Olje produksjon [Sm3/dag]	Gass produksjon [Sm3/dag]	Oljetetthet [g/cm3]	Gasstygde rel. luft	GOR [m3/m3]
1.0	35	15631			449

Boreslam

Dybde MD [m]	Egenvekt, slam [g/cm3]	Viskositet, slam [mPa.s]	flytegrense [Pa]	Type slam	Dato, måling
364	1.32	8.0	16.8	WATER BASED	12.03.1990
1106	1.32	5.0	6.7	WATER BASED	09.03.1990
1106	1.32	5.0	6.7	WATER BASED	12.03.1990
3399	2.06	58.0	19.6	OIL BASED	28.02.1990
3399	1.82	10.0	19.2	WATER BASED	02.03.1990
3399	1.82	11.0	19.6	WATER BASED	05.03.1990
3399	1.82	10.0	18.2	WATER BASED	05.03.1990
3399	1.82	11.0	16.8	WATER BASED	05.03.1990
3399	1.82	10.0	16.8	WATER BASED	06.03.1990
3399	1.82	10.0	17.2	WATER BASED	07.03.1990
3399	1.68	8.0	12.9	WATER BASED	08.03.1990
3399	1.82	11.0	20.6	WATER BASED	02.03.1990





4545	2.10	61.0	14.4	OIL BASED	28.02.1990
4545	2.04	53.0	9.6	OIL BASED	28.02.1990
4545	2.09	58.0	13.9	OIL BASED	28.02.1990
4545	2.06	58.0	19.6	OIL BASED	28.02.1990
4719	2.04	52.0	10.5	OIL BASED	22.02.1990
4719	2.04	51.0	10.5	OIL BASED	23.02.1990
4863	2.04	43.0	12.0	OIL BASED	12.02.1990
4863	2.04	48.0	12.9	OIL BASED	19.02.1990
4863	2.05	33.0	10.1	OIL BASED	05.02.1990
4863	2.06	54.0	17.2	OIL BASED	05.02.1990
4863	2.05	52.0	12.4	OIL BASED	05.02.1990
4863	2.04	50.0	10.5	OIL BASED	05.02.1990
4863	2.04	49.0	13.4	OIL BASED	06.02.1990
4863	2.04	42.0	10.1	OIL BASED	07.02.1990
4863	2.04	51.0	13.4	OIL BASED	08.02.1990
4863	2.04	45.0	14.4	OIL BASED	09.02.1990
4863	2.10	46.0	12.9	OIL BASED	12.02.1990
4863	2.04	50.0	14.4	OIL BASED	12.02.1990
4863	2.04	43.0	12.0	OIL BASED	13.02.1990
4863	2.04	43.0	12.0	OIL BASED	14.02.1990
4863	2.01	48.0	8.6	OIL BASED	15.02.1990
4863	2.04	50.0	14.4	OIL BASED	16.02.1990
4863	2.04	49.0	13.4	OIL BASED	19.02.1990
4863	2.04	51.0	14.8	OIL BASED	19.02.1990
4863	2.04	51.0	11.0	OIL BASED	20.02.1990
4863	2.04	50.0	10.5	OIL BASED	21.02.1990